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No. 17]

NEW DELHI, SATURDAY, APRIL 24, 1993 (VAISAKHA 4, 1915)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
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PATENTS AND DESIGNS

Calcutta, the 24th April 1993

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एकरब तथा अभिकल्प

कलकत्ता, दिनांक 24 अप्रैल 1993

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

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पेटेंट कार्यालय शाखा, टोडी हस्टेट,
तीसरा तल, लोअर परले (पश्चिम),
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा
दीव एवं दादरा और नगर हवेली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,
एकरा सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,
मिन्निकाय तथा एंमिनी द्वीप ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुस्तरीय कार्यालय,
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020 ।

भारत का अवसोष क्षेत्र ।

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पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे-
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कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या सो नकद की जाएगी अथवा
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा
ड्राफ्ट आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट
अथवा बैंक द्वारा की जा सकती है ।

THE PATENT OFFICE

Calcutta, the 24th April 1993

APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-20

The dates shown in the crescent branch are the dates claim-
ed under section 135, of the patents Act, 1970.

15th March 1993

149/Cal/93. Fritz Stahlecker and Hans Stahlecker. An op-
erating unit comprising a spinning or twisting spindle,
a package tube as well as coupling elements.

150/Cal/93. Krupp vdm Gmbh. Coin blank.
(Convention No. 92105706.3 dated 2-4-92 in EPO).

151/Cal/93. Sumanta Saynal. Joyride.

152/Cal/93. Zimpro Passavant Environmental Systems, INC.,
Method of monitoring PH in caustic liquor wet
oxidation.

153/Cal/93 Zimpro Passavant Environmental Systems, INC.
Wet oxidation system startup process.

154/Cal/93. Glenn a orton. Cryptographic method for com-
munication and electronic signatures.

155/Cal/93. Md. Monowar Hossain. An improved process of
invention to create energy by turning the pedal
of BI-Cycle and Rickshaw into the opposite direc-
tion.

16th March 1993

156/Cal/93. BTR PLC. TAPERED PLUG VALVE (Conven-
tion No. 9207576.1 dated 7-4-92 in Great Britain).

157/Cal/93. RCA Licensing Corporation. Color display sys-
tem and tube having an electron gun with dual
electrode modulation.

158/Cal/93. Glenayre Electronics, INC. Clock Synchroniza-
tion system.

159/Cal/93. Caroma Industries Limited. A cistern
mechanism.

17th March 1993

160/Cal/93. (1) Dr. Amit Chatterjee, (2) Mr. V. G. K.
Murty (3) Mrs. S. Rajendran, (4) P.V.T. Rao.
Process for the recovery of magnetic fraction from
blast furnace flue dust/GCP sludge.

161/Cal/93. Deussa Aktiengesellschaft. An oxidative diesel
control catalyst.

162/Cal/93. James Mitchell. One-piece Knuckle Assembly.

163/Cal/93. Krupp Vdm Gmbh. A process for preparation
of improved alloy composition and a process of
preparation of improved structural components.

18th March 1993

164/Cal/93. Unilever Plc. Improvements in or relating to cleaning compositions.

(Convention No. 9206115.9 dated 20-3-92 in Great Britain).

(Convention No. 9215555.5 dated 27-7-92 in Great Britain).

(Convention No. 9222813.9 dated 30-10-92 in Great Britain).

(Convention No. 9304732.2 dated 9-3-93 in Great Britain).

19th March 1993

165/Cal/93. Steelsworth Limited. Improvements in or relating to etc. machine.

166/Cal/93. Steelsworth Limited. Improvements in or relating to an apparatus for producing granulated tea particles.

167/Cal/93. Erema Engineering Recycling Maschinen und anlagen gesellschaft m.b.h. Apparatus for the treatment of thermoplastic synthetic plastics material.

168/Cal/93. Indian Jute Industries' Research Association. Process of softening and lubrication of lignocellulosic fibres such as jute and mesta for manufacture of hydrocarbon-free material.

22nd March 1993

169/Cal/93. Engelhard corporation. Hydrogenation catalyst, process for preparing and process for using said catalyst.

170/Cal/93. Merck Patent Gesellschaft mit beschränkter Haftung. Platelet-like colored pigments and process for producing the same.

171/Cal/93. Sushanta Barthakur and Ramendra Narayan Bhattacharya. A drawing instrument.

COMPLETE SPECIFICATION ACCEPTED

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को उपर्युक्त कार्यालय को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।”

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ यदि कोई हों, के साथ विनिर्देशों की टांकित अथवा फांदा प्रतियाँ की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Cl. 128 F

172161

Int. Cl. A 61 M 1/00.

A PUMPING APPARATUS FOR INJECTING FLUID INTO A STERILIZING CHAMBER.

Applicant: M/S JOHNSON & JOHNSON MEDICAL, INC., ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NEW JERSEY 08933, UNITED STATES OF AMERICA.

Inventors: (1) HAROLD ROBERT WILLIAMS and (2) ROBERT MCCOY SPENCER.

Application No. 355/Cal/88; filed on May 02, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

13 Claims

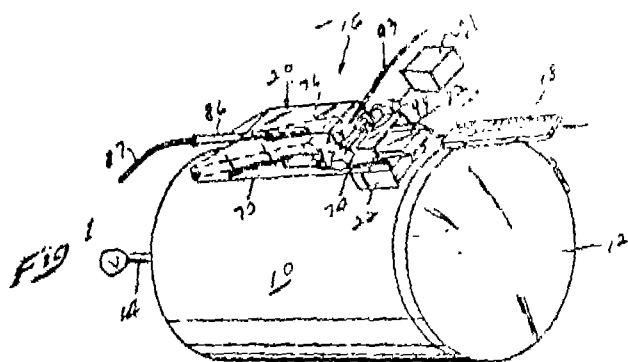
A pumping apparatus for injecting fluid into a sterilizing chamber, comprising:

a prepackaged, unpressurized closed cell containing a known volume of liquid;

a mechanism for receiving and positioning said cell;

an assembly cooperating with said mechanism to form temporarily a sealed outlet from said cell; and

means cooperating with said cell and said mechanism to force said liquid out of said cell.



(Compl. Specn. 25 pages.

Drgns. 5 sheets)

Cl. 136 E,

172162

Int. Cl. B 29 D, 11/00

METHOD AND APPARATUS FOR PRODUCING MOLDED ARTICLES AND MOLDED ARTICLES THEREBY PRODUCED.

Applicant: OCUTECH OF LOWER LEVEL, TWO GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: (1) GORDEN PAGE BROWN, (2) ROBERT LESLIE MERKER, and (3) HARRY CHARLES MORGAN.

Application No. 857/Cal/88; filed on 17 October 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

15 Claims

A method for producing a molded article, the method comprising the steps of:

providing a mold having separable molding surfaces;

loading a predetermined quantity of moldable material on at least one molding surface of the mold;

positioning the molding surfaces of the mold into a spaced apart relation to establish a meniscus of moldable material in the gap about the periphery of the moldable material;

causing said meniscus to attain a convex curvature extending outwardly of the gap between the molding surfaces; and

finalizing the molding of the moldable material to form the article while maintaining said meniscus with a convex curvature.

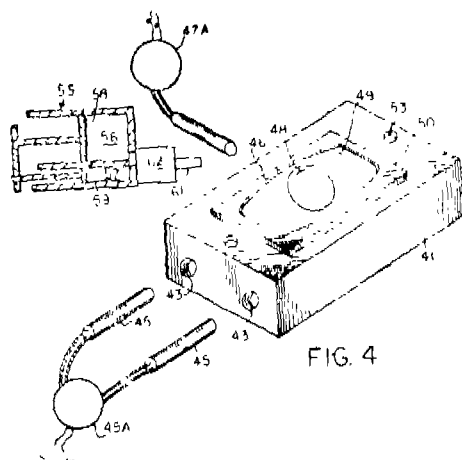


FIG. 4

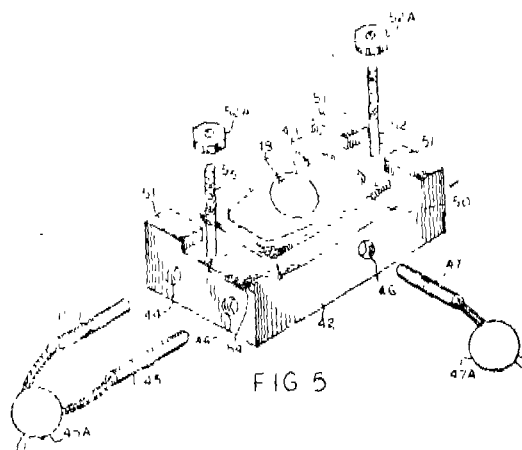


FIG. 5

(Compl. Specn. 25 pages.

Drgns. 4 sheets)

Cl. 85 I.

172163

Int. Cl. F 23 C 1/00, 3/00.

THERMAL DECOMPOSITION APPARATUS.

Applicant: HOWORKA FRANZ OF GLOCKENGASSE 1, A-1020 VIENNA, AUSTRIA.

Inventor: BUZETZKI EDUARD.

Application No. 996/Cal/88; filed on 1st December 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

15 Claims

An apparatus for the thermal decomposition of a fluid toxic substance contained in a gas, which comprises:

(a) a substantially cylindrical main combustion chamber,

(b) a secondary combustion chamber arranged thereabove.

(c) an inlet opening leading into the main combustion chamber for introducing a stream of the gas containing the toxic substance into the main combustion chamber.

(d) a burner to direct a flame into the main combustion chamber, and

(e) an annular gas stream retaining device above the burner.

characterised in that the burner (d) is placed above the inlet opening for subjecting the gas containing toxic substances to combustion and the annular gas stream retaining device (e) should define:

(1) a central opening permitting the stream of gas to pass from the main combustion chamber into the secondary combustion chamber, the central opening having a diameter smaller than that of the cylindrical main combustion chamber, and

(2) a gas stream passage means arranged around the central opening and the retaining device comprising.

(3) obliquely downwardly directed nozzle means for delivering secondary air into the main combustion chamber.

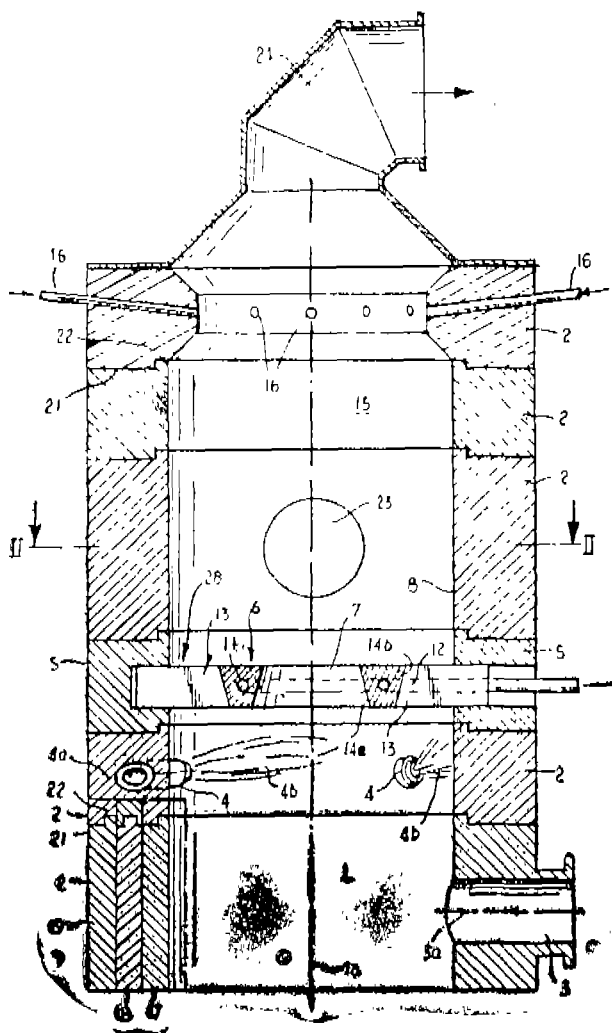


Fig. 1

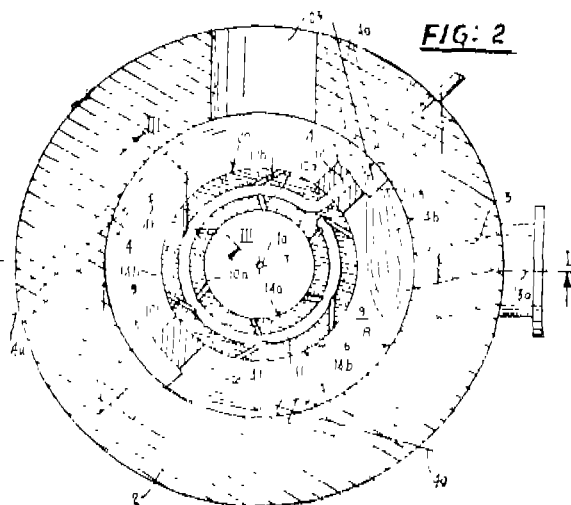


FIG: 2

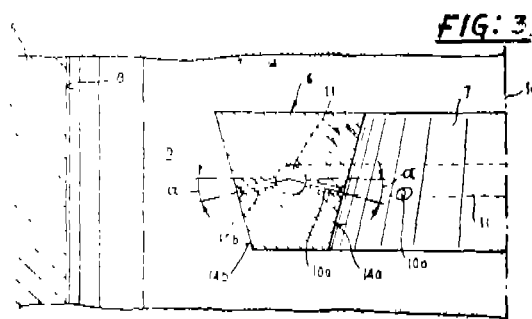
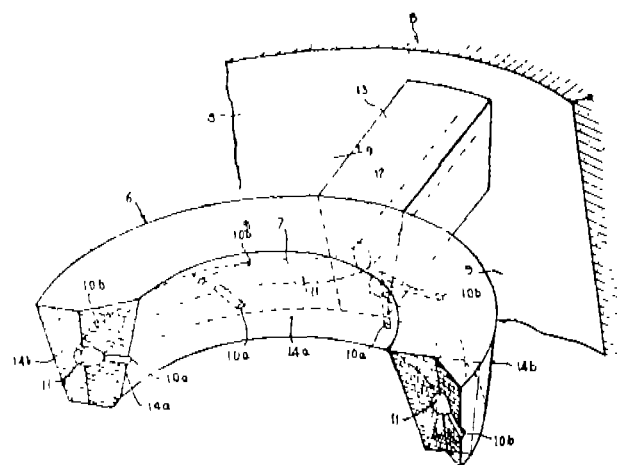


FIG: 3

Fig. 4



(Compl. Specn. 17 pages

Grgns. 3 sheets)

CI 39 E

172164

Int CI C 01 B 7/01

PROCESS FOR PRODUCING CHLORINE.

Applicant: MITSUI TOATSU CHEMICALS, INCORPORATED OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODAKU, TOKYO, JAPAN.

Inventors: (1) HIROYUKI ITOH, (2) YOSHITASUGU KONO, (3) ISAO KIKUCHI, (4) SHINJI TAKENAKA and (5) MASANOBU AJIOKA.

Application No. 161/Cal/1989; filed on 27th February 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

3 Claims

A process for producing chlorine by reacting hydrogen chloride and oxygen consisted in a feed gas in a molar ratio of oxygen to hydrogen chloride of at least 1.25 in the presence of a catalyst based on chromium oxide such as herein described which comprises using a fluidized bed reactor equipped at vertical intervals not greater than 100 cm with plural perforated plates having a perforation rate of 16-60% in a reaction zone in which the catalyst is fluidized in operation, said reaction zone being above a gas diffuses plate, the feed gas being charged at an hourly rate of 200-180 NI, in terms of hydrogen chloride per Kg of catalyst used, and the reaction being conducted at a temperature of between 350-450°C and at normal pressure or higher.

Cl. 77 B 2

172165

Int. Cl.⁴: B 30 B 11/22.

AN IMPROVED METHOD AND AN EXTRUDER FOR THE PREPARATION OF EXTRUDATES FROM OLIGENOUS PLANT MATERIAL USEFUL IN THE EXTRACTION OF OIL THEREFROM.

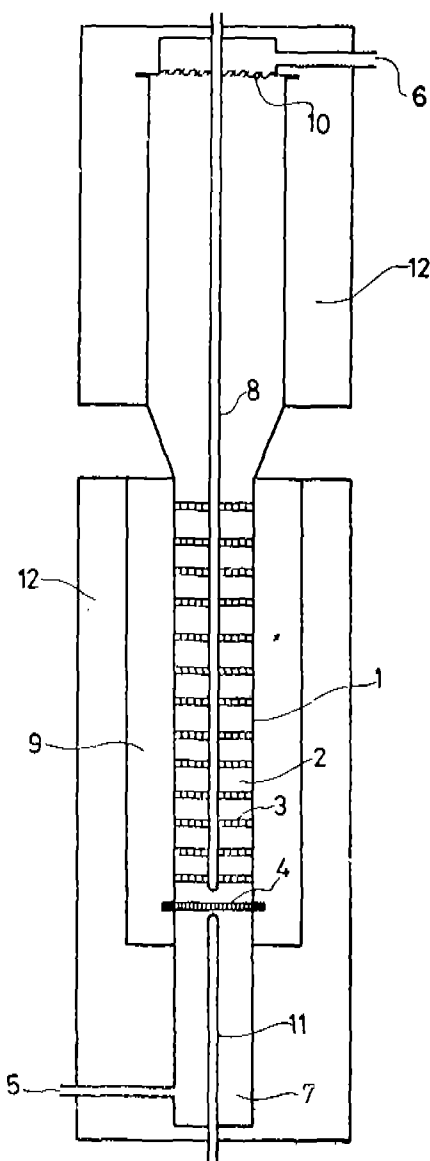
Applicant & Inventor: SUSHIM KUMAR DEV. C/O, SHRI B. K. ROY, 73, SADAR BAKASHI LANE, HOWRAH, WEST BENGAL, INDIA.

Application No. 386/Cal/89; filed on 19th May 1989.

Appropriate Office for Opposition Proceedings (Ruel 4, Patent Rule 1972) Patent Office, Calcutta.

16 Claims

An improved method of preparing extrudates from oligenous plant raw materials which comprises feeding the dry raw material into an extrusion apparatus having a first feed section and a second working section, said material being propelled continuously from said first section into the said second section, the said material being subjected to the steps of simultaneous kneading/mixing, shearing, grinding and agglomeration in the said second section in presence of initially water and subsequently steam, the material being also subjected to heating by means of the steam used followed by extrusion of the final material in a third section through an extrusion die and cutting of the extrudates into desire sized pellets characterized by the improvement wherein the material obtained after the steam heating and before extrusion through the die is subjected to heating by self-generated steam thereby raising the internal temperature of the material, subjecting the temperature raised material to extrusion through the die and cutting into pellets and wherein the pellets obtained having the raised temperature are subjected to withdrawal of moisture therefrom using a current of air immediately thereafter thereby to reduce the moisture content to below 10%.



(Compl. Specn. 22 pages.

Drgns. 1 sheet)

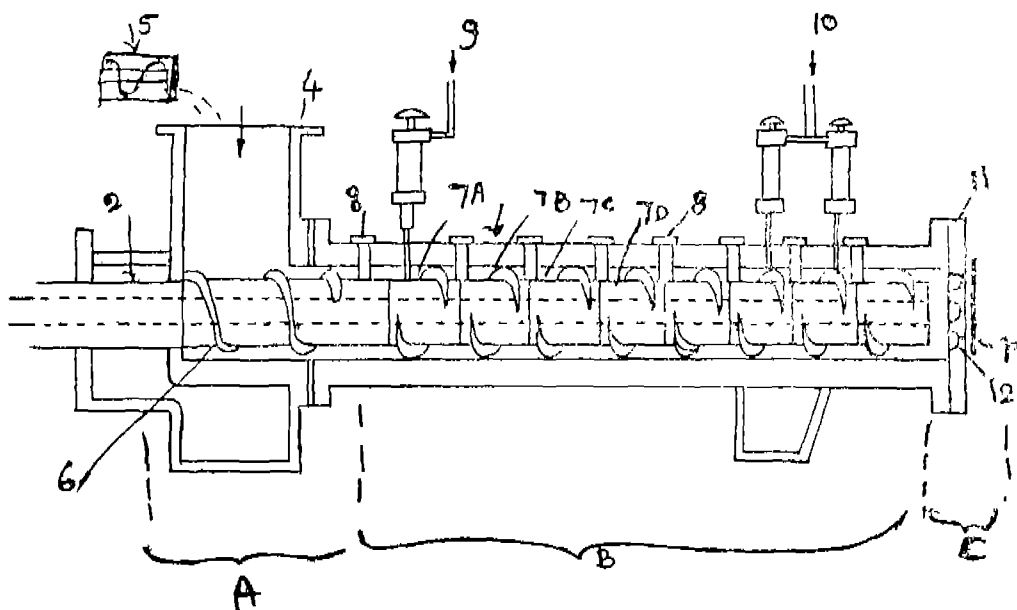


FIG. 1

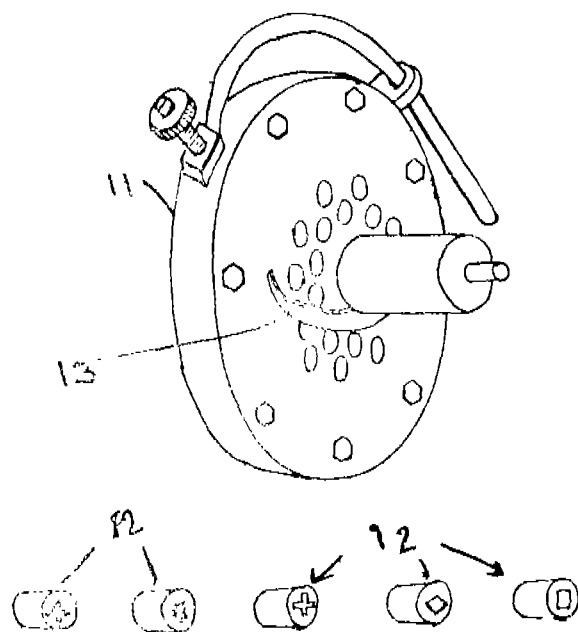


FIG. 2

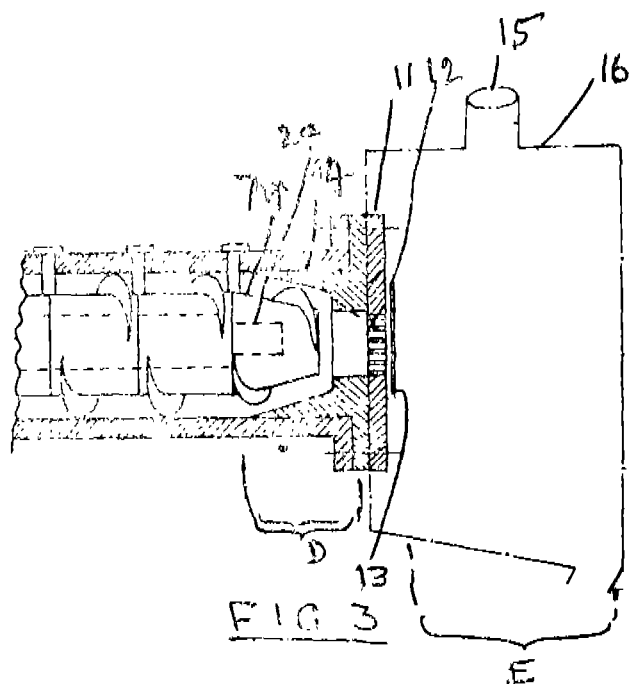


FIG. 3

(Compl. Specn. 25 pages.

Drgns. 2 sheets)

Cl. 6A2, 6A4

172166

Int. Cl.: F 04 B 37/00, 41/00, F04 C 25/00.

MULTI-STAGE VACUUM PUMP UNIT.

Applicant: SIEMENS AKTIENGESELLSCHAFT OF WITTELSBACHERPLATZ 2, D-8000, MUNICH 2, WEST GERMANY.

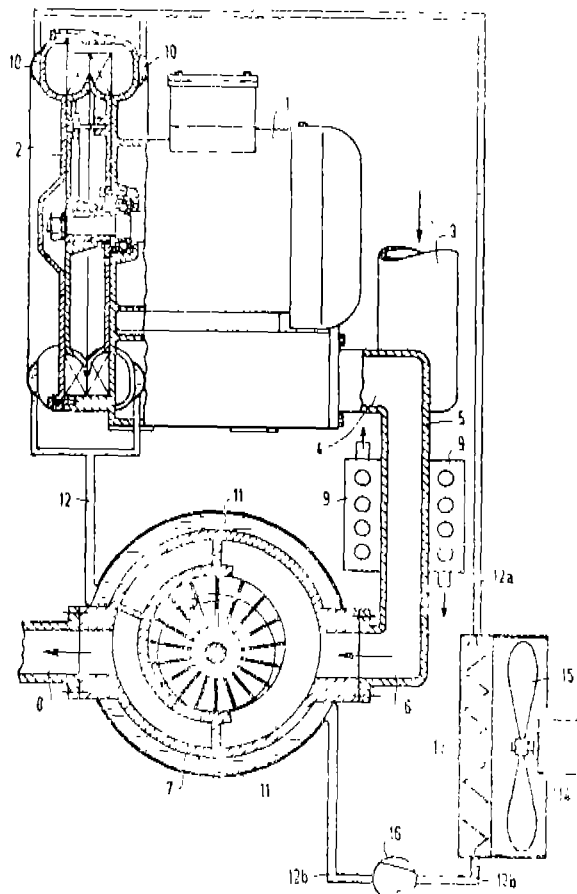
Inventor: KURT-WILLY MUGELI.

Application No. 440/Cal/89; filed on 7th June 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

10 Claims

Multiple-stage vacuum pump unit, comprising an oil-lubricated or dry running mechanical positive-displacement pump provided in the final atmospheric stage and is preceded by at least one further pump on the vacuum side, characterized in that the preliminary pump is a pressure, ring pump (2).



(Compl. Specn. 9 pages.

Drgns. 1 sheet)

Cl.: 116 H.

172167

Int. Cl.: B 66 B 7/00.

ELEVATOR MACHINE.

Applicant: KONE ELEVATOR GMBH. OF RATHAUSSTRASSE 1, CH 6340 BAAR, SWITZERLAND.

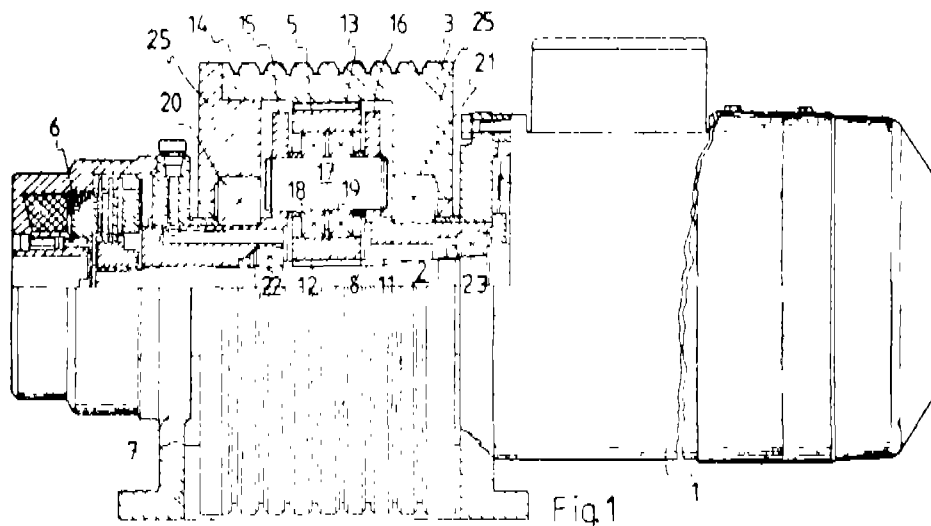
Inventors: URHO HEIKKINEN.

Application No. 462/Cal/89; filed on 16th June 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

10 Claims

Elevator machine, consisting of a drive motor (1), a drive shaft (2) driven by the motor, a traction sheave (3) transmitting the motion to the elevator car by means of ropes (4) and a gear assembly to reduce the rotational speed of the motor for the traction sheave, characterised in that the gear assembly is located inside the traction sheave (3), that the drive shaft (2) goes through the traction sheave and that the drive motor (1) is coupled to one end of the drive shaft (2) while the brake (6) is mounted on the other end on the opposite side of the traction sheave (3).



(Compl. Specn. 8 pages.)

Drgns. 2 sheets)

Cl.: 148 H

172168

Int. Cl.: H 05 G 1/02.

SLIT RADIOGRAPHY DEVICE AND PROCESS FOR PRODUCING THE SAME.

Applicant: B.V. OPTISCHE INDUSTRIE "DE OUDE DELFT". OF VAN MIEREVELT LAAN 9, 2612 XE DELFT, NETHERLANDS.

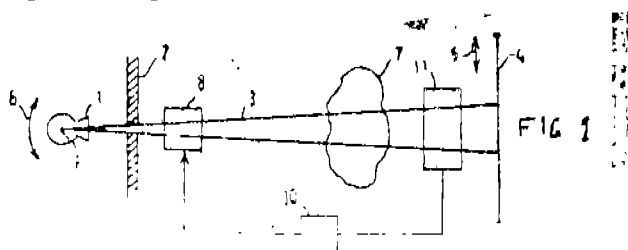
Inventors: (1) HENDRIK JOHAN VAN ELBURG, (2) FREDERIK JOHAN BOELEN, (3) GERBRAND GJS-BERTUS NOUWEN.

Application No. 468/Cal/89; filed on 19th June 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

19 Claims

Slit radiography device comprising an X-ray source which is capable, when in operation, of scanning a body under examination, via a slit of a slit diaphragm, with a fan-shaped X-ray beam in a direction transverse to the longitudinal direction of the slit, an absorption device comprising a number of movable absorption elements placed next to each other being provided, which absorption elements can be moved into the fan-shaped X-ray beam to a greater or lesser extent under the influence of suitable control signals in order to influence, when in operation, the X-ray radiation incident on the body per sector of the X-ray beam, characterized in that at least the edge sections facing each other of adjacent absorption elements are of identical shape and, viewed from the X-ray source, overlap each other, an edge section of an absorption element which, seen from the X-ray source, overlaps an edge section of an adjacent absorption element always being a small distance nearer the X-ray source than the edge section of the said adjacent absorption elements and the total material thickness at the site of the overlapping edge sections being equal to the material thickness between the equi-distant longitudinal edges of said absorption elements.



(Compl. Specn. 19 pages)

Drgns. 5 sheets)

Cl.: 108 C 3

172169

Int. Cl.: C 21 C 5/00.

PROCESS FOR THE PRODUCTION OF STEEL FROM FINE ORE.

Applicant & Inventors: RALPH WEBER OF AM NORD-GLACIS 93 423 WESEL FEDERAL REPUBLIC OF GERMANY.

Application No. 823/Cal/1989; filed on 3rd October 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

7 Claims

A process for the production of steel from fine ore comprising the step of reducing the fine ore in the presence of coal in a fluidized bed of a reduction unit together with a reduction gas to form iron sponge particles, and passing the particles to a melting vessel in which they are melted with a feed of coal and oxygen and are refined to produce steel, the improvements in said process comprising the step of subjecting a mixture of iron sponge particles and fine coal which is discharged from the reduction unit to hot compacting to form hot iron sponge coal briquettes before said briquettes are introduced into the melting and refining vessel.

(Compl. Specn. 10 pages.)

Drgns. 1 sheet)

Cl.: 107 L.

172170

Int. Cl.: F 02 M 31/08.

AN APPARATUS FOR CAUSING COMPLETE COMBUSTION OF FUEL IN INTERNAL COMBUSTION ENGINES, WHILE IN OPERATION.

Applicant & Inventor: SOMENDRA MOHAN GHOSH OF 195 A, SARAT BOSE ROAD, CALCUTTA-700 029, WEST BENGAL, INDIA.

Application No. 456/Cal/90; filed on 30th May 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

10 Claims

An apparatus for causing complete combustion of fuel in internal combustion engines while in operation, for preventing atmospheric pollution by any unburnt fuel exhaust, and consequently for increasing fuel efficiency of the engines, said apparatus comprising one or more metal jacketed flexible

tubular member(s) adapted to be connected between the air cleaner of the engine and a source of hot air, said source being constituted by an adopter having walls made of heat conductive metal/alloy plates to define a closed housing with a curvilinear gap therewithin, the said gap being provided with metallic catalyst(s), such as herein described, capable of aiding heating of air in the gap, and inlet(s) and outlet(s) for air being provided on the opposite walls of the adopter, the arrangement being such that one end of the said tubular member(s) is adapted to be connected to the air outlet(s) of the adopter,

adapted to be fitted to a heated part of the engine, in operation, while the other end of the tubular member(s), to be connected to the air cleaner, is provided with an air injecting/impinging nozzle for injecting/impinging hot air upto the fuel particles, whereby the fuel is caused to be preheated and the molecules thereof are caused to be broken before being fed to the working chamber of the engine, either directly in the case of diesel engine, or through the carburettor in the case of petrol engine.

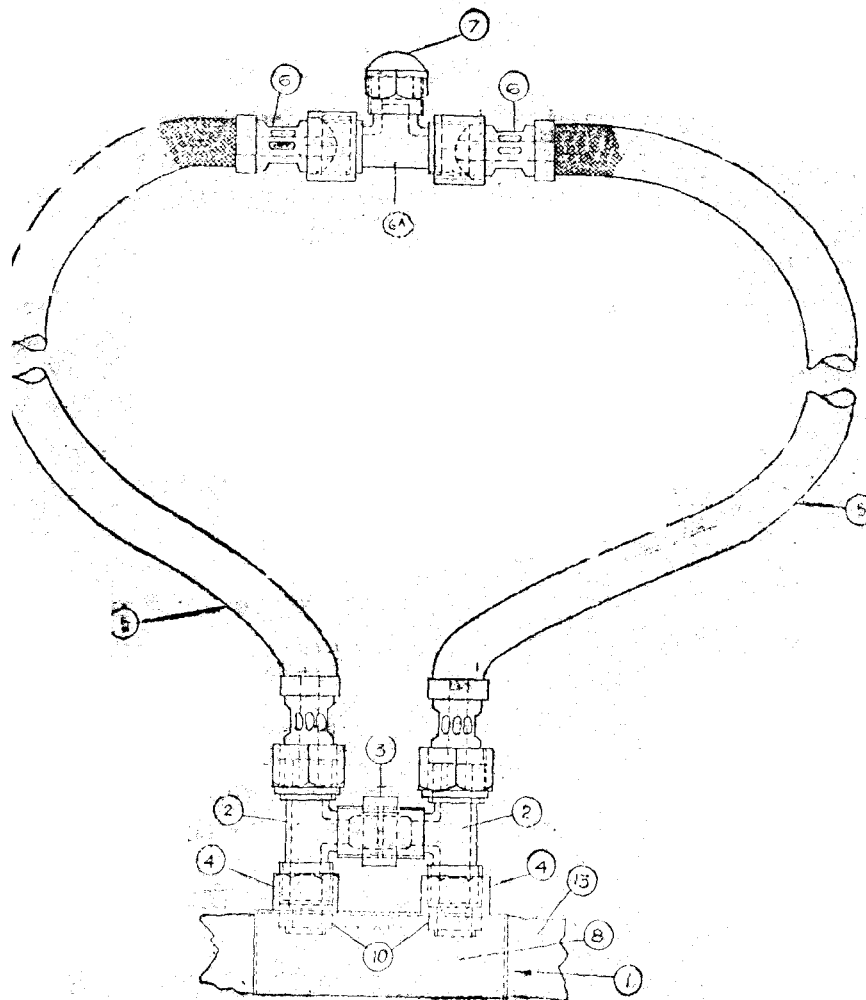


FIG. 1

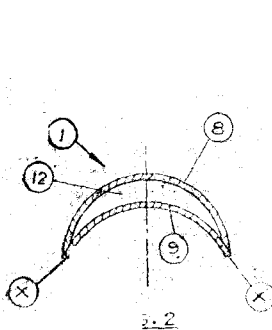


Fig. 2

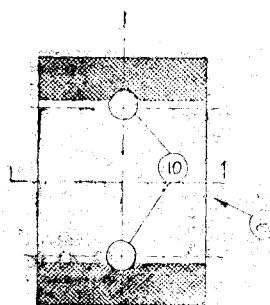


Fig. 3

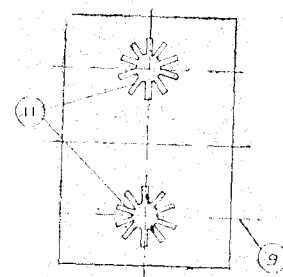


Fig. 4

Ind. Cl.: 146 D₁.

172171

Int. Cl.⁴: H 01 S 3/00.**A MICROBEAM LASER MACHINE FOR ACTING ON OBJECTS HAVING THIN LAYERS OF MATERIAL.**

Applicant: BERTIN & CIE, OF B.P. No3 78373 PLAISIR CEDEX, FRANCE A FRENCH COMPANY.

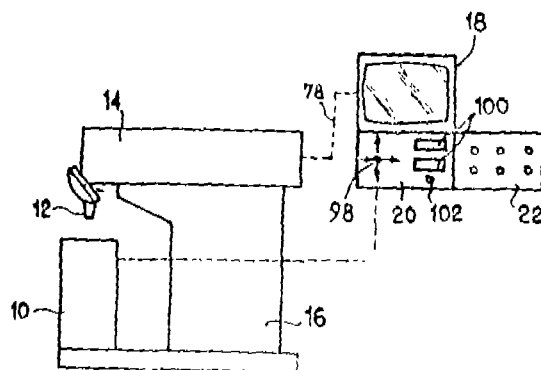
Inventors: GEOFFROY AUVERT, YVES GUERN & JEAN-CLAUDE GEORGEL.

Application for Patent No. 1146/DEL/87 filed on 29th Dec 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

A microbeam laser machine for acting on objects having thin layers of materials, such as integrated circuits, for example for cutting said layers, the machine comprising a continuous laser (24), a microscope (12) for focusing the laser beam on a particular area of said object and for observing the point of impact of said laser beam (24) on said object, and a rigid platen (14), undeformable, and insensitive to vibrations, said platen (14) being located between the outlet of said laser beam (24) and said object and having removably fixed thereon said microscope (12) and optical components (66, 72) for defining three optical paths having independent adjustment means and comprising a laser beam transmission path extending from said outlet of said laser towards said object through said microscope (12); an illumination path for transmitting an illumination beam towards said object through said microscope (12); and a video observation path extending from said object towards electronic means (76) and a video display screen (18) through said microscope (12), said three optical paths being independent from one another on said platen (14) upstream of said microscope (12) and being permanently gathered by means of a dichroic plate (44) at the inlet of said laser beam (24) on said object.



(Compl. Specn. 17 pages)

Drawing 4 sheets)

Ind. Cl.: 80 A.

172172

Int. Cl.⁴: B 28 C 1/02, 1/10, C 04 B 33/04.**A METHOD OF MANUFACTURING AN ACID TREATED CLAY TO INCREASE ITS EFFECTIVENESS IN FILTERING CONTAMINANTS FROM A LIQUID.**

Applicant: AMERICAN COLLOID COMPANY, OF ONE NORTH ARLINGTON 1500 WEST SHURE DRIVE ARLINGTON HEIGHTS, ILLINOIS 60004 USA A CORPORATION OF THE STATE OF DELAWARE, U.S.A.

Inventor: WILLIAM ALEXANDER.

Application for Patent No. 3/DEL/88 filed on 4th January 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A method of manufacturing an acid treated clay to increase its effectiveness in filtering contaminants from a liquid such as herein described said method comprises:

extruding a clay of the kind such as herein described and containing 20 to 40% weight water content through one or more die openings to partially align and break up the clay platelets;

grinding the extruded clay so as to obtain at least 90% of the clay particles have a particle size of 5 to 400 microns prior to adding the clay to an aqueous acid solution;

adding directly to the clay an aqueous acid solution to form a clay slurry;

the clay slurry is heated, with agitation, at a temperature of 80 to 100°C for at least 3 hours to beneficiate the contaminant filtration characteristics of the clay;

separating the acid treated clay from a majority of the acid solution;

washing the acid treated clay with a suitable acid-diluting liquid such as herein described to remove most of the acid solution from the clay and form a washed, acid treated clay;

filtering the washed, acid treated clay to remove a portion of the diluting liquid from the clay; and

drying the acid treated clay to a desired liquid content.

(Complete Specification 23 pages).

Ind. Cl.: 6A₉.

172173

Int. Cl.⁴: F 25 B 1/00, F 25 D 1/00, 9/00.**AN IMPROVED AIR DRIER UNIT FOR THE DEHUMIDIFICATION OF HOT COMPRESSED AIR OR GAS.**

Applicant: KRISHAN GOPAL KHOSLA, AN INDIAN CITIZEN, OF 11 PRITHVI RAJ ROAD, NEW DELHI-110011, INDIA.

Inventor: KRISHAN GOPAL KHOSLA.

Application for Patent No. 5/DEL/88 filed on 5th January 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

An air drier unit for the dehumidification of hot compressed air or gas comprising:

a pair of vessels (3, 4) filled or substantially filled with a desiccant (5) through which air to be dehumidified is passed alternately in opposite cycles so that spent desiccant (5) is regenerated in one vessel (3 or 4) while said air is dehumidified in the other (4 or 3) and vice versa;

respective inflow means (8, 7) connected to each vessel (3, 4) for the introduction alternately thereto of a stream of said hot, moisture-laden compressed air or gas;

respective outflow means (12, 13) connected to each vessel (3, 4) for the exit of demineralised air which has been dried by passage through the desiccant (5) in both vessels (3, 4);

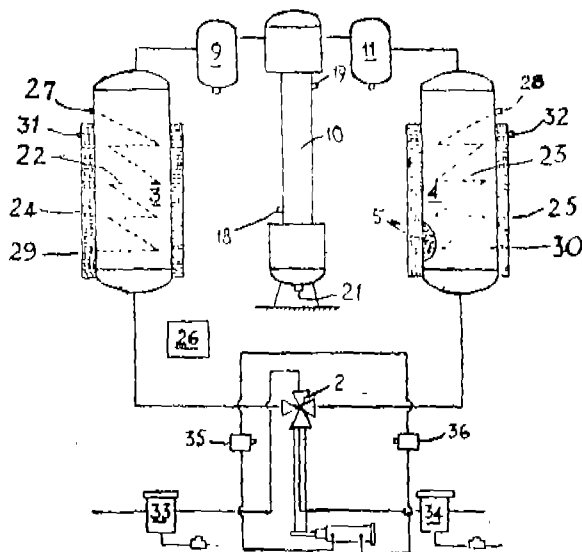
integrated timer-actuated valve means (2) provided with said inflow (8, 7) and outflow (12, 13) means for alternately directing at a predetermined time said hot compressed air or

gas to the vessel (3 or 4) regenerating desiccant (5) with the demohumidised air or gas exiting from the dehumidifying vessel (4 or 3);

cooling means (10) located intermediate said pair of vessels (3, 4) through which means air issuing from the vessel (3 or 4) regenerating desiccant (5) is led prior to being passed to the dehumidifying vessel (4 or 3);

additional cooling means characterised in that (20/22, 23, 24, 25) is provided with each of said pair of vessels (3, 4) and adapted to be operated alternately on receiving predetermined signal; and

timer means (26) is connected to said integrated valve means (2) and to said additional cooling means (20/22, 23, 24, 25) whereby, in response to a signal given by said timer means (22) at a pre-set time, the additional cooling means (20/22, 23, 24, 25) provided with the vessel (3 or 4) regenerating desiccant (5) is activated for a predetermined period of time whereafter in response to a further signal from said timer means (26) at a further pre-set time, said additional cooling means (20/22, 23, 24, 25) is disconnected and said integrated valve means (2) is actuated to cause said stream of hot moisture-laden compressed air introduced through said inflow (8, 7) means to one of said vessels (3 or 4) to be switched to the other (4 or 3) and to cause the exit of demohumidised air from the outflow means (12, 13) of one vessel (4 or 3) to the switched to the other (3 or 4).



(Compl. Specn. 18 pages

Drwg 2 sheets)

Ind. Cl.: 159 J. N.

172174

Int. Cl. 4: B 61 L 1/18, 29/32.

LEVEL CROSSING WARNING SYSTEM.

Applicant: CENTRAL ELECTRONICS LIMITED, NPL CAMPUS, HILL SIDE ROAD, NEW DELHI, INDIA, AN INDIAN COMPANY.

Inventor: BISWAJIT ROY.

Application for Patent No.: 19/DEL/88 filed on 12th January 1988.

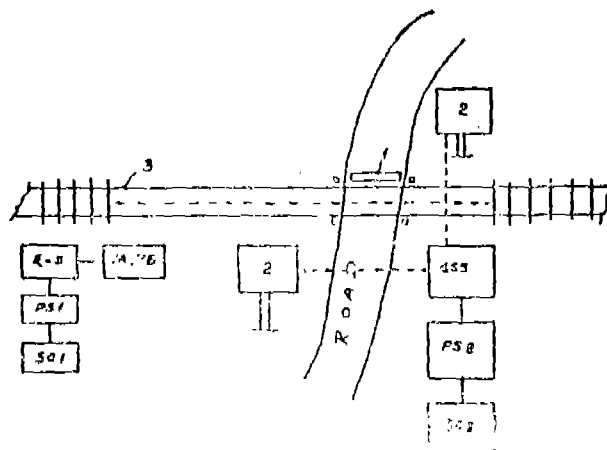
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A level crossing warning system for use with a Railway level crossing gate comprising a gate side assembly GSS located on one side of said gate (1) an audio and/or visual warning means (2) connected to said gate side assembly to provide a signal to indicate the presence of a rolling stock,

a remote end assembly RES located on each track and on either sides at a distance from said gate, each of said remote end assemblies comprising:

- a track circuit (7A) or (7B) consisting of a transmitter and a receiver for use with on the track for detecting a rolling stock when present on the railway track;
- a direction finder circuit (B) consisting of a trolley suppressor having an input terminal for each of the track circuits (7A) and (7B) for determining the direction of the rolling stock said direction finder circuit being provided adjacent to said track and connected to said track circuit.
- a switching circuit SW 1 connected to an output terminal of a timer circuit (C) connected to said direction finder circuit for activating said warning means;
- an encoder circuit (D) connected to the output terminals of said direction finder circuit for providing cyclic repeating data frames, each of said frames or a set of signals consisting of synchronized information data bits;
- a frequency shift keying circuit (FSK) connected to said encoder for providing a modulating signal; and
- a power source for supply of power to the remote end assembly said gate side assembly consisting (a) Receiver RC for receiving signal from said frequency shift keying circuit of said remote end assembly; (b) a frequency shift decoder FKSD for decoding a signal and providing a single output signal; (c) a decoder connected to said frequency shift keying decoder for providing outputs corresponding in number to that of the information data bits; (d) a non cumulative independent counter NCC connected to said decoder; (e) said audio and/or visual warning means (2) being connected to said counter; and (f) a power source PS 2 for energising said gate side assembly.



(Compl. Specn. 28 pages

Drwg. 4 sheets)

Ind. Cl.: 13-A.

172175

Int. Cl. 4: B 65 D 33/00, B 65 B 61/14, A 45 D 37/00.

SACHET OF FLEXIBLE SYNTHETIC MATERIAL.

Applicant: SOCIETE GENERALE DES EAUX MINERALES DE VITTEL, A FRENCH COMPANY OF B.P. 43, 88800 VITTEL, FRANCE.

Inventor: MICHEL CAZES.

Application for Patent No. 70/DEL/88 filed on 28th January 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A sachet of flexible synthetic material comprising a flexible body (55) for containing a liquid and means for receiving and supporting the flexible body, said means comprising one or more side reinforcing pieces (56, 57) with their lower ends forming a base constituting a bottom portion (58) and a sleeve (59) for engaging the side reinforcing pieces (56, 57) to define a container for receiving said flexible body (55), said flexible body (55) being retained within the receiving and supporting means only by means of friction.

(Compl. Specn. 14 pages)

Drwg 5 sheets)

Ind. Cl. : 24 E.

172176

Int. Cl. : B60T 15/36.

A DRUM BRAKE FOR A VEHICLE.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

Inventor : JOHN ARTHUR URBAN.

Application for Patent No. 71/Del/88 filed on 28 Jan. 1988.

Convention date 03 Feb 1987/8702341/U.K

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A drum brake for a vehicle comprising a pair of brake shoes mounted on a torque plate (3) and carrying friction linings (4) for engagement with a rotatable drum characterised in that the said drum having an automatic adjuster comprising a transmission means (20) coupled to the cam (14) through a drive means, the said drive means having a lost-motion connection (37, 54) for determining the braking clearances, and a two-way clutch (50) comprising two clutch parts, the said transmission means (20) is operative in first and second opposite directions to increase the effective lengths of the two thrust assemblies (9, 10) located at each end of screw threaded components (11) and an inhibit means (57) is provided at the periphery of said transmission means (20).

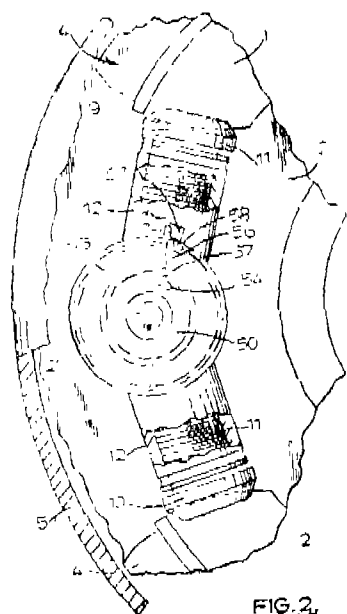


FIG. 2.

Compl. Specn. 11 pages

Drgs. Sheets 2

Ind. Cl. 114 B +D+F.

172177

Int. Cl. C 14 C-1/00, 1/08, 5/00.

A PROCESS FOR OBTAINING BIOLOGICALLY STABILIZED, CHROME-FREE, AND UNTANNED HIDES.

Applicant : CENTRE TECHNIQUE CUIR CHAUSSURE MAROQUINERIE, A FRENCH COMPANY OF 9 AVENUE JULES CARTERET, 69007 LYON, FRANCE.

Inventors : GERARD GAVEND, BERNARD VULLIERMET, RAYMOND HARAN, MICHELE GERVAIS & JEAN PORE.

Application for Patent No. 76/Del/88 filed on 29th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A process for obtaining biologically stabilized, chrome-free, and untanned hides, comprising:

pickling totally untanned and bated hides;

allowing the hides to stand at least ten hours;

pretanning the hides with aluminum salts;

wherein a chemical rewetting agent selected from the group of compounds consisting of polyalcohols, condensates of fatty alcohols with ethylene oxide, and condensates of alkylphenols with ethylene oxide is introduced at any one of the above steps, to preserve after drying, a residual moisture of about 20%; and drying the hides.

Compl. Specn. 22 pages

Drg. Sheet Nil.

Ind. Cl. : 98 C.

172178

Int. Cl. : F 28 B 1/02.

HEAT EXCHANGE COMPONENT FOR A HEAT EXCHANGER.

Applicant : STEIN INDUSTRIE, OF 19-21 AVENUE MORANE SAULNEIR 78140 VELIZY VILLACOUBLAY, FRANCE, A FRENCH COMPANY.

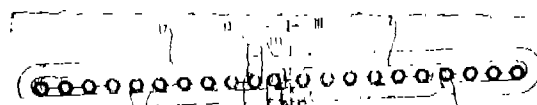
Inventors : JEAN FOURNIER & PAUL MEYNARD.

Application for Patent No. 79/Del/88 filed on 29th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

5 Claims

A heat exchange component (1) for a heat exchanger which comprises of loops of tubes (10) in which a fluid flows, said loops (11) being situated in a plane of said heat exchanger and being formed by bends and by mutually parallel vertical lengths of said tubes (10), at least one of said tubes (10) being in the form of an additional loop (12) extending on either side of said plane and surrounding said parallel vertical lengths of said tube (10), characterised in that said component (1) has a notched flat surface (2) in the plane of said additional loop (12), said notched flat surface (2) having semicircular openings, each of said openings being connected to a vertical length of said tube (11), and said additional loop (12) being in the form of a complete loop and being situated in the path of said at least one tube so that there is no discontinuity of its fluid flow.



Compl. Specn. 8 pages

Drgs. Sheets 3

Ind. Cl.: 107 A.

172179

Int. Cl.: F 01 P 11/00.

A BED STRUCTURE FOR SUPPORTING DRIVING AND DRIVEN UNITS.

Applicant: AB VOLVO PENTA (A SWEDISH CORPORATION) S-40508 GÖTEBORG, SWEDEN.

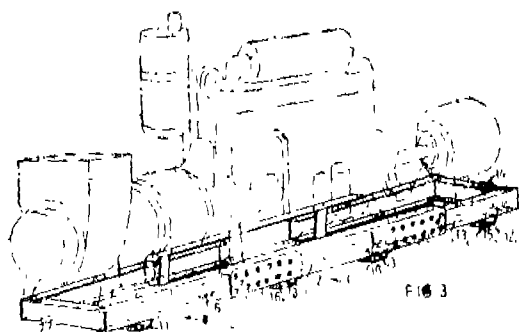
Inventor: KJELL MANSSON.

Application for Patent No. 80/Del/88 filed on 29th Jan. 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A bed structure for supporting driving and driven units such as, for instance, internal combustion engines and generators, said bed structure comprising first frame elements (1) having surfaces for supporting at least one unit, characterised in that second frame elements (8), also having surfaces for supporting at least one further unit intended for connection to the said driving unit, are connected to the first frame elements (1) so as to be adjustable to a transporting mode of the bed structure, at least the major part of said second frame elements (8) being located within the extremities of the horizontal extensions of the respective first frame elements (1) in said transporting mode of the said bed structure, and also such as to be adjustable to an operational mode of said bed structure, in which said second frame elements (2) are in the form of an extension of the first frame elements (1) and that at least one of the frame elements (1 & 8) are provided with means (16) with which the tines of a forklift device can engage for the purpose of lifting the bed with a unit mounted thereon.



Compl. Specn. 11 pages

Drgs. Sheets 5

Ind. Cl.: 6 A 2.

Int. Cl.: F 25 B 31/00, F 04 B 1/00.

WOBBLE PLATE TYPE COMPRESSOR.

Applicant: SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA, 372 JAPAN

Inventors: HAREO TAKAHASHI, KIYOSHI TERAUCHI, HIDEHARU HATAKEYAMA & SHUZO KUMAGAI.

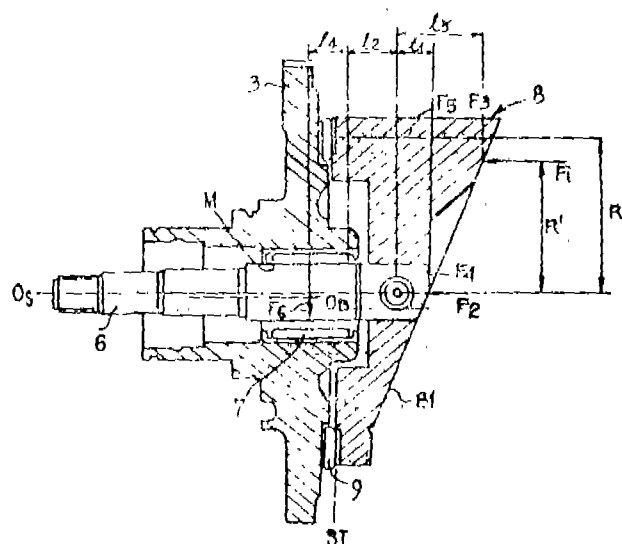
Application for Patent No. 96/Del/88 filed on 2nd February, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A wobble plate type compressor (1) comprising a compressor housing (2) having a plurality of cylinders (212) and a crank chamber (22) adjacent said cylinders (212)

therein, a reciprocative piston (14) slidably fitted within each of said cylinders (212), a front end plate (3) with a central opening (31) attached to one end surface of said compressor housing (2), a drive mechanism coupled to said pistons (14) to reciprocate said pistons (14) within said cylinders (212), said drive mechanism having a drive shaft (6) and a wedge-shaped cam rotor (8) attached to said drive shaft (6), wherein said drive shaft (6) is rotatably supported with said central opening (31) of said front end plate (3) by a radial bearing (7) and said cam rotor (8) is rotatably supported on an inner end surface of said compressor housing (2) through a thrust bearing (9), a wobble plate (10) mounted on a supporting member (11) coupled to said cam rotor (8) and said pistons (14) for converting rotational motion of said cam rotor (8) to reciprocating motion of said pistons (14), and an urging mechanism coupled to said wobble plate, characterised by said drive shaft (6) being connected to said cam rotor (8) at a predetermined angle θ therewith, said angle θ having a value greater than or equal to $\tan^{-1}(c/l)$, wherein l is the length of said radial bearing (7) in the axial direction, and c is the clearance between the interior surface of said radial bearing (7) and the exterior surface of the drive shaft (6), and wherein said urging mechanism is provided with elastic means (13, 17, 50, 211) to cause the inner end surface of said cam rotor (8) to uniformly contact said thrust bearing (9).



Compl. Specn. 21 pages

Drgs. 5 Sheets

PATENT SEALED ON 26-3-93

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169956 169958* 170106 170188 170189 170243 170244*
170381 170449* 170555* 170622 171030

Cal-06, Del-05 and Bom-05, Mas-03.

* Patent shall be deemed to be endorsed with the words "LICENCE OF RIGHT" Under Section 87 of the Patent Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG Patent, F—FOOD Patent.

RENEWAL FEES PAID

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 163365 163366 163372 163374 163378 163381 163385 163386
 163388 163391 163402 163413 163418 163419 163422 163424
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 163448 163453 163455 163457 163460

OPPOSITION PROCEEDINGS

An Opposition has been entered by EAGLE FLASK INDUSTRIES LTD. on Patent Application No. 171439 made by DR. JOSE THAIKATTIL.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152885 granted to Mineral Deposits Limited. for an invention relating to "a spiral separator".

The Patent ceased on the 2nd April, 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent will be notified in the Gazette of India, Part III, Section 2, dated the 10th April, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 24th June, 1993, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153222 granted to Mineral Deposits Limited for an invention relating to "a spiral separator".

The Patent ceased on the 2nd April, 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent will be notified in the Gazette of India, Part III, Section 2, dated the 10th April, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 24th June, 1993, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application for restoration of Patent No. 160566 dated the 23rd July, 1984 made by Ghanshyam Dass Agrawal on the 18th May, 1992 and notified in the Gazette of India, Part III, Section 2, dated the 1st August, 1992 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 162893 dated the 5th February, 1985, made by UOP Inc., on the 5th February, 1992, and notified in the Gazette of India, Part III, Section 2, dated the 18th April 1992, has been allowed and the said patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164894 granted to Kameshwar Patralekh for an invention relating to "a voltage stabilizer".

The Patent ceased on the 19th March, 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent will be notified in the Gazette of India, Part III, Section 2, dated the 10th April, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 24th June, 1993, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 168606 granted to Anant Narayan Namjoshi, Chimanlal Govindbhai Patel & Others for an invention relating to "an improved blending machine".

The Patent ceased on the 10th November, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 10th April, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 24th June, 1993, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration of the design included in the entry.

Class 1. Nos. 164663 & 164665. Signode Corporation of 3610, West Lake Avenue, Glenview, Illinois 61025, U.S.A., an American Company. "Tensioning and cutting tool for non-metallic straps". August 12, 1992.

Class 1. No. 164667. Signode Corporation of 3610, West Lake Avenue, Glenview, Illinois 61025, U.S.A., an American Company. "Buckle for securing packaging straps". August 12, 1992.

Class 3. No. 164621. VVD Healthcare Products Pvt. Ltd. of Plot No. 98, Sidco Industrial Estate, Thirumazhisai, Madras-602107, T.N., India "Container". July 24, 1992.

Class 3. No. 164759. Sumeet Machines Pvt. Ltd. of A/11-C & A/11-3, Ambad Industrial Estate, Addl. Nasik Industrial Area, Nasik-422010, Maharashtra, India, Indian Co. "Mixer-Blade Holder". September 7, 1992.

Class 3. No. 164798. Geoffrey Manners & Co. Ltd. of Magnet House, Narottam Mararjee Marg, Bombay-400038, Maharashtra, India. "Inhaler". September 18, 1992.

Class 4. Nos. 164696 to 164698. Newtronics Pty. Ltd. of 149-159, Capel Street, North Melbourne, Victoria 3051, Australia "Light Emitting Device". February 26, 1992.

Class 5. No. 164664. Signode Corporation of 3610 West Lake Avenue, Glenview, Illinois 61025, U.S.A., an American Company. "Package to contain straps and buckles". August 12, 1992.

R. A. ACHARYA
Controller General of Patents
Designs and Trade Marks.

